	Smart Skies	
	Program of Stud	dies
State	Standards	
		Predictions and/or inferences about the direction or speed of an object can be made by
	SCI 5 SC-5-ME-	interpreting graphs, charts or descriptions of the
KV		object's motion.
- Ki	0-1	Create and interpret graphical representations in
	SCI 5 SC-5-ME-	order to make inferences and draw conclusions
KY		about the motion of an object
- Ki	3-2	Predictions and/or inferences about the direction
		or speed of an object can be made by
	SCIESCE ME	interpreting graphs, charts or descriptions of the
KV		object's motion.
IV I	0-1	
	COLE SC E ME	Some comparisons may not be 'fair' because
107		some conditions (e.g. mass, force, speed,
KY	U-4	friction) might not be the same.
	001500545	Create and interpret graphical representations in
101		order to make inferences and draw conclusions
KY	S-2	about the motion of an object
		Design and conduct experiments to examine the
		effects of variables on the straight line motion of
		objects. Analyze, review and critique each
KY	S-3	other's experiments
	Consort Chiese	
State	Standards	
		When any force acts on an object, the change in
	SCI.6.SC-6-MF-	speed or direction depends on the size and
KY	U-2	direction of the force.
		Use observations and appropriate tools (e.g.,
	SCI.6.SC-6-MF-	timer, meter stick, balance, spring scale) to
KY		document the position and motion of objects
		Use graphical and observational data to make
		inferences, predictions and draw conclusions
	SCL6 SC-6-MF-	about the motion of an object as related to the
KY		mass or force involved
	0 2	When any force acts on an object, the change in
	SCI 6 SC-6-ME-	speed or direction depends on the size and
KY		direction of the force.
131	U-2	Use graphical and observational data to make
		inferences, predictions and draw conclusions
	SCIESCEME	about the motion of an object as related to the
KY	S-2	mass or force involved
I X I	1 3- 2	IIIIass UI IUICE IIIVUIVEU
	KY KY KY KY KY KY KY KY KY KY	State Standards

		2006 Scienc	
		Program of Stu	dies
Kentucky Science			
Grade 7	04-4-	Standards	
Activity/Lesson	State	Standards	Lies appropriate tools and technology (e.g.
			Use appropriate tools and technology (e.g.,
		COL 7 CO 7 ME	timer, meter stick, balance, spring scale) to
Floring Markla	101	SCI.7.SC-7-MF-	, , ,
Fly by Math	KY	S-1	objects
F1 1 84 ()	101	l l	Test the cause and effect relationship between
Fly by Math	KY	S-2	straight-line motion and unbalanced forces
	101		Investigate balanced and unbalanced forces and
Fly by Math	KY	S-3	their effect on objects and their motion
			Make inferences and draw conclusions about
			the motion of objects, and predict changes in
		SCI.7.SC-7-MF-	l'
Fly by Math	KY	S-4	force
			Use appropriate tools and technology (e.g.,
			timer, meter stick, balance, spring scale) to
		SCI.7.SC-7-MF-	, , , , , , , , , , , , , , , , , , , ,
Line Up with Math	KY	S-1	objects
			Make inferences and draw conclusions about
			the motion of objects, and predict changes in
		SCI.7.SC-7-MF-	position and motion as related to the mass or
Line Up with Math	KY	S-4	force
		Smart Skies	
		2006 Scienc	
1/ / 1 0 1		Program of Stu	dies
Kentucky Science			
Grade 8	01.1		
Activity/Lesson	State	Standards	
			Explain and experimentally verify how Newton's
			Laws show that forces between objects affect
			their motion, allowing future positions to be
		SCI.8.SC-8-MF-	i i
Fly by Math	KY	S-2	positions
			Investigate motion of objects to generate and
			experimentally test predictions/conclusions.
			Compare and critique the results of others for
			accuracy, identifying strengths and weaknesses
		SCI.8.SC-8-MF-	in the experiment, insisting on the use of
	KY	S-3	evidence to support decisions
Fly by Math		<u> </u>	I
Fly by Math			Explain and experimentally verify how Newton's
Fly by Math			Laws show that forces between objects affect
Fly by Math			Laws show that forces between objects affect their motion, allowing future positions to be
Fly by Math		SCI.8.SC-8-MF-	Laws show that forces between objects affect their motion, allowing future positions to be
Fly by Math Line Up with Math	KY		Laws show that forces between objects affect their motion, allowing future positions to be
		SCI.8.SC-8-MF- S-2	Laws show that forces between objects affect their motion, allowing future positions to be predicted from their present speeds and positions
		SCI.8.SC-8-MF- S-2 Smart Skies	Laws show that forces between objects affect their motion, allowing future positions to be predicted from their present speeds and positions
		SCI.8.SC-8-MF- S-2	Laws show that forces between objects affect their motion, allowing future positions to be predicted from their present speeds and positions see

Grades 9-12			
Activity/Lesson	State	Standards	
-			Representing and describing motion in a variety
			of ways provides data that can be used to
		SCI.9-12.SC-H-	construct explanations and make predictions
Fly by Math	KY	MF-U-1	about real-life phenomena.
			Design and conduct investigations involving the
		SCI.9-12.SC-H-	motion of objects and report the results in a
Fly by Math	KY	MF-S-1	variety of ways
			Create conceptual and mathematical models of
		SCI.9-12.SC-H-	motion and test them against real-life
Fly by Math	KY	MF-S-7	phenomena
			Representing and describing motion in a variety
			of ways provides data that can be used to
		SCI.9-12.SC-H-	construct explanations and make predictions
Line Up with Math	KY	MF-U-1	about real-life phenomena.
			Design and conduct investigations involving the
		SCI.9-12.SC-H-	motion of objects and report the results in a
Line Up with Math	KY	MF-S-1	variety of ways
			Create conceptual and mathematical models of
		SCI.9-12.SC-H-	motion and test them against real-life
Line Up with Math	KY	MF-S-7	phenomena